## ABSTRACT

Method and apparatus for switching between multiple implementations of a
routine. A plurality of implementations of a routine are compiled into respective object
code modules. In one embodiment, each implementation of the routine is adapted for a
particular hardware configuration. The different object code modules are associated
with respective sets of hardware characteristics and with the name of the routine.
When the application program and library are loaded into memory of the computer
system, a references to the routine are resolved using the sets of hardware
characteristics and the hardware configuration of the system.